

CLAIMS

1. A heat exchanger of a ventilating system, comprising:
 - heat exchange plates which are laminated at a predetermined interval and divide an outdoor air path through which outdoor air passes and an indoor air path through which indoor air passes;
 - a plurality of embossing protrusions which are formed on the outdoor air path divided by the heat exchange plates, for generating turbulence in the outdoor air which flows in the outdoor air path; and
 - a corrugation plate which is positioned in the indoor air path, for securing a space through which the indoor air passes.
2. The exchanger of claim 1, wherein a partition for preventing inflow of indoor air into the outdoor air path is attached on both side surfaces of the outdoor air path.
3. The exchanger of claim 1, wherein the embossing protrusions are formed in a convex shape having a predetermined height on the upper surface of the heat exchange plate.
4. The exchanger of claim 1, wherein the embossing protrusions of a first row are aligned at a predetermined interval at the front of the heat exchange plate, embossing protrusions of a second row are aligned at a predetermined interval at the rear of the embossing protrusions of the first row, the embossing protrusions of the first row and the second row are sequentially

aligned, and the embossing protrusions of the second row are respectively positioned in spaces among the embossing protrusions of the first row.

5. The exchanger of claim 1, wherein the outdoor air passing through
the outdoor air path and the indoor air passing through the indoor air path
which flow being crossed with each other.

6. A heat exchanger of a ventilating system, comprising:
a heat exchange plate for dividing an outdoor air path through which
10 outdoor air passes and an indoor air path through which indoor air passes,
which are laminated at a predetermined interval;
a corrugation plate which is attached on the outdoor air path which is
divided by the heat exchange plates, for securing a space through which the
outdoor air passes; and
15 a plurality of embossing protrusions which are positioned in the indoor
air path, for generating turbulence in the indoor air flowing in the indoor air path.

7. The exchanger of claim 6, wherein partitions for preventing
inflow of outdoor air to the indoor air path are respectively disposed on both
20 side surfaces of the indoor air path.

8. The exchanger of claim 6, wherein the embossing protrusion is
formed in a convex shape having a predetermined height on a upper surface of

the heat exchange plate.

9. The exchanger of claim 6, wherein the embossing protrusions of a first row are aligned at a predetermined interval at the front of the heat exchange plate, the embossing protrusions of a second row are aligned at a predetermined interval at the rear of the embossing protrusions of the first row, the embossing protrusions of the first and second rows are sequentially aligned, and the embossing protrusions of the second row are positioned in spaces among the embossing protrusions of the first row.

10

10. The exchanger of claim 6, wherein the outdoor air passing through the outdoor air path and the indoor air passing through the indoor air path which flow being crossed with each other.

15

11. A heat exchanger of a ventilating system, comprising:
heat exchanging plates which are laminated at a predetermined interval for dividing an outdoor air path through which outdoor air passes and an indoor air path through which indoor air passes;
a plurality of outdoor embossing protrusions which are formed on the outdoor air path divided by the heat exchange plates, for generating turbulence in the outdoor air which flows in the outdoor air path; and
a plurality of indoor embossing protrusions which are formed in the indoor air paths, for generating turbulence in the indoor air which flows in the

indoor air path.